How To Grow Good Seed Potatoes

potato grower pays too-little attention sumers who are insisting on greater unigrowers, especially those of Great Bri- ing to pay more for such potatoes. tain and Germany pay very strict atdifferentiation of the potato industry into seed and crop specialists. The seed specialist makes a business of producing high quality seed, while the crop specialist produces a high grade table potato. No such differentiation, at least to the same extent, occurs in this country. It is true that in certain sections we now have a well developed seed potato growing industry, but comparatively few growers in these sections are paying sufficient attention to the elimination of diseased and unproductive strains or to keeping the variety the flesh or other evidence of disease grown free from mixture with other va- should be rejected. Plant the four ricties. It is believed, however, that pieces of each tuber consecutively in the time is ripe for demanding a better grade of seed potatoes than is now gen-inches apart in the furrow. By allow-erally obtained from either seedsmen or ing more space between set of four growers.

A Vital Question.

seed is a vital one. Pure seed from uniformity between the various units productive plants not over ripe, uni-form in size and shape, firm and sound, most uniform in size, vigor and type with first sprouts just showing at planting time. Seed of such quality, if furnished suitable cultural conditions, will At digging time the product of each seldom fail to produce a remunerative unit is separately harvested and a fur-crop. A conservative estimate of the ther selection made from those which increase that might be expected from most nearly approach the size, shape the use of high-grade seeds is certainly and smoothness desired. Only the pronot less than 10 per cent.

yet been given to the subject of the productiveness or unproductiveness of certain strains of plants within a variety. It is believed that this is a very lected strains for field planting and plants may be found.

as yet recognized by the American potato grower. The European growers, on the other hand, have long realized that, other things being equal, larger crops small tubers, a great number of tests can be produced from immature seed than from mature seed.

Experiments in England.

for table stock,

ticularly important at present that such be reaped.

OF the many causes which operate strains be developed, because there is to produce a low average potate an increasing demand for fancy table yield in this country, poor seed is stock to satisfy the requirements of a very important one. The American large and discriminating class of conto his seed potatoes. The European formity in size and shape and are will-

tention to the quality and quantity of developing high grade seed potatoes is The simplest and surest means of the seed they use. This has led to a that of the tuber-unit and hill-selection methods. The tuber-unit method consists in selecting from the seed bin a number of the most perfectly shaped tubers of from six to eight ounces in weight. When planted these are quartored, as dropped, into four equal parts. This is done by splitting the bud-eye cluster in each direction from seed to stem out. In other words, the tuber is cut lengthwise.

Should Be Rejected.

All tubers showing discolorations of should be rejected. Plant the four row at a distance of from 10 to 12 pieces, each tuber is isolated from adjoining ones and the grower can readi The question of what constitutes good ly observe any variation in vigor and when the plants are growing, the first duct of the most desired units should be Comparatively little attention has as retained for the following season.

Hill Selection Method.

The further conduct of the work will consist in the multiplication of the seimportant factor in the production of the climination of weak plants. The large yields, as in any variety, if hill-selection method consists in market-studied closely, many unproductive ing the most promising plants during the growing season and at harvest time The superiority of immature over save only those which gave greatest mature tubers for seed purposes is not promise. Plant on the tuber unit basis

As to the advisability of planting in various parts of the country show that the use of large tubers gave a production of over 16 times as great a Results of experiments conducted in tubers produced. The use of small seed England show a gain in favor of im- potatoes is only permissible when they mature seed of more than 100 per cent are known to have been produced by strong, healthy and productive plants. Uniformity of size and shape is a It is never advisable to use small seed quality which should receive more tubers from the general mass of unthought, and strains of potatoes giving selected stock. Like produces like. If the greatest yield of fair-sized, shapely tubers from unproductive or weak tubers should be cultivated. It is par-

Potatoes In Europe and America

ment of improved varieties of potatoes has not been satisfactory suited for baking is needed, another
as compared with the progress of leading European countries, is the statement some demand for salads. The house
of the bureau of plant industry of the wife today finds it necessary to waste Department of Agriculture.

a better flavor, color and texture, par-ticularly for boiling and frying, but The use of commercial fertilizers uni-these do not succeed when introduced versal in Germany is unknown in our ers would engage in this work as they our districts in Maine, New York and have in Great Britain, Germany and the Atlantic trucking belt have alnating industry and would undoubtedly more fertilizer, and potato growing is make notable achievements.

In America we have much to accomplish in breeding a potato with a greater starch content. Our potatoes are now lower than the German va- trolling diseases and maintaining proricties by from 4 to 8 per cent.

Our elimatic conditions in America are so diverse that we need varieties of potatoes adapted to special local-tion of from three to seven years beresistant strain that can more suc. portance of green manuring yet been cessfully withstand the high summer temperatures. Disease resistance is another quality that has been bred into certain foreign sorts, but is so lacking in ours that we have to quarantine absolutely certain foreign types that might bring disease with them.

The breeding of potatoes for differ- if carried out by the co-operation of

MERICAN progress in the develop-jent kinds of cooking might even b much good material in preparing her The best European varieties possess potatoes for the table, particularly the

into the United States. If private grow- western potato districts. Certain of they would find it a fasci- ready found it to their profit to use most prosperous in these sections. This should become more universal.

Crop rotation is of fundamental impertance to the potate erop in conduction, but in the United States only the beginning of an ordered system has been made. Germany has a rota-Particularly do we need a heat tween potato crops. Nor has the imfully appreciated in this country.

The problem of securing disease free seed has been met in Germany by an official inspection, which results in certificates being issued only to owners of disease free crops. Such a plan for the United States would be better

potato growers' associations, the state[er than through legal enactment.

As early as possible provide a lamb experiment stations and the United ereep in each pasture, and give each States Department of Agriculture rath-

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